

SUBJECT: LA-6 Model

DATE: September 20, 1933

TO ALL OFFICES:

We release herewith the first installment of Machine Service Bulletin No. 161; plates 1 to 11 inclusive, which illustrate and describe the adjustments of the LA-6 Model.

- 1 To determine the proper adjustment of the trip arms (F) in relation to the extra carry gears (G), hold the outside lever (E) upward, as shown, as far as possible and note the align-

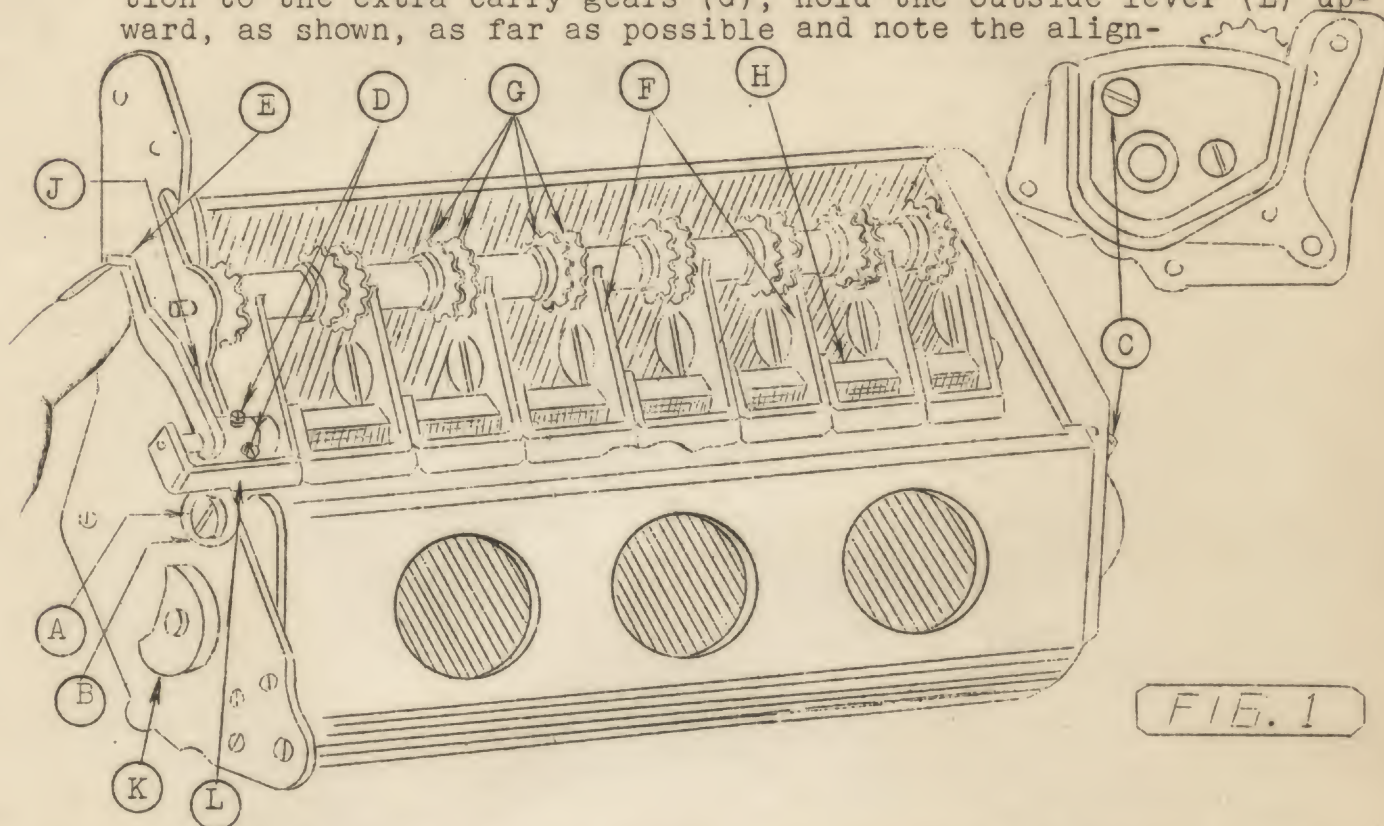
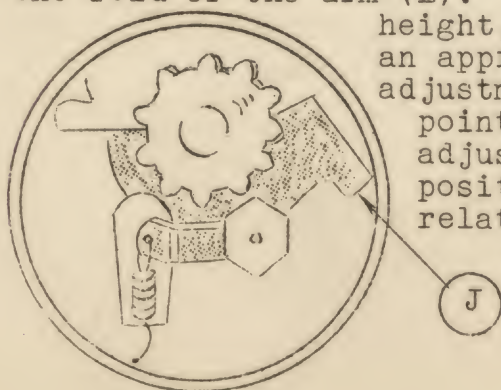


FIG. 1

ment of the engaging points of all arms (F) with the extra carry gears. If the trip arms (F) are positioned too far forward or backward effecting their alignment with the extra carry gears (G), loosen screws (A) and (C) and position shaft (H) forward or backward to suit, after which tighten these screws securely.

If the points of trip arms (F) extend more than $1/64$ " above the surface of gears (G), loosen screw (A) and position blank (B) up against the fold of the arm (L). Holding the points at the above mentioned height, tighten screw (A) securely. The above is an approximate adjustment which allows a final adjustment to be accomplished that positions the points slightly lower than this. The final adjustment is made by loosening screws (D) and positioning lever (E) upward or downward in relation to the regular trip lever. After the desired adjustment has been made, tighten screws (D) securely.



The carrying unit is removed from the machine as follows:

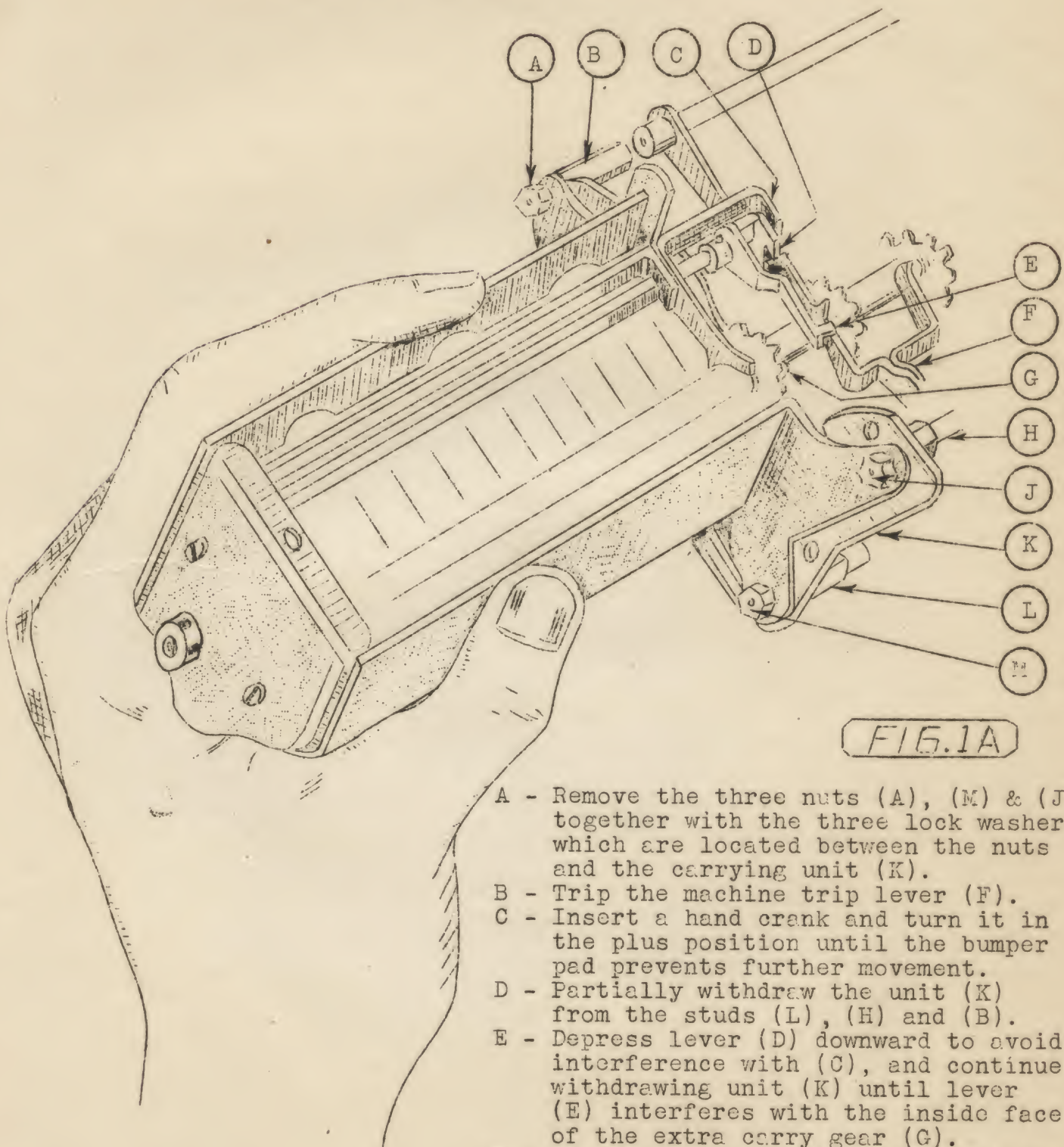
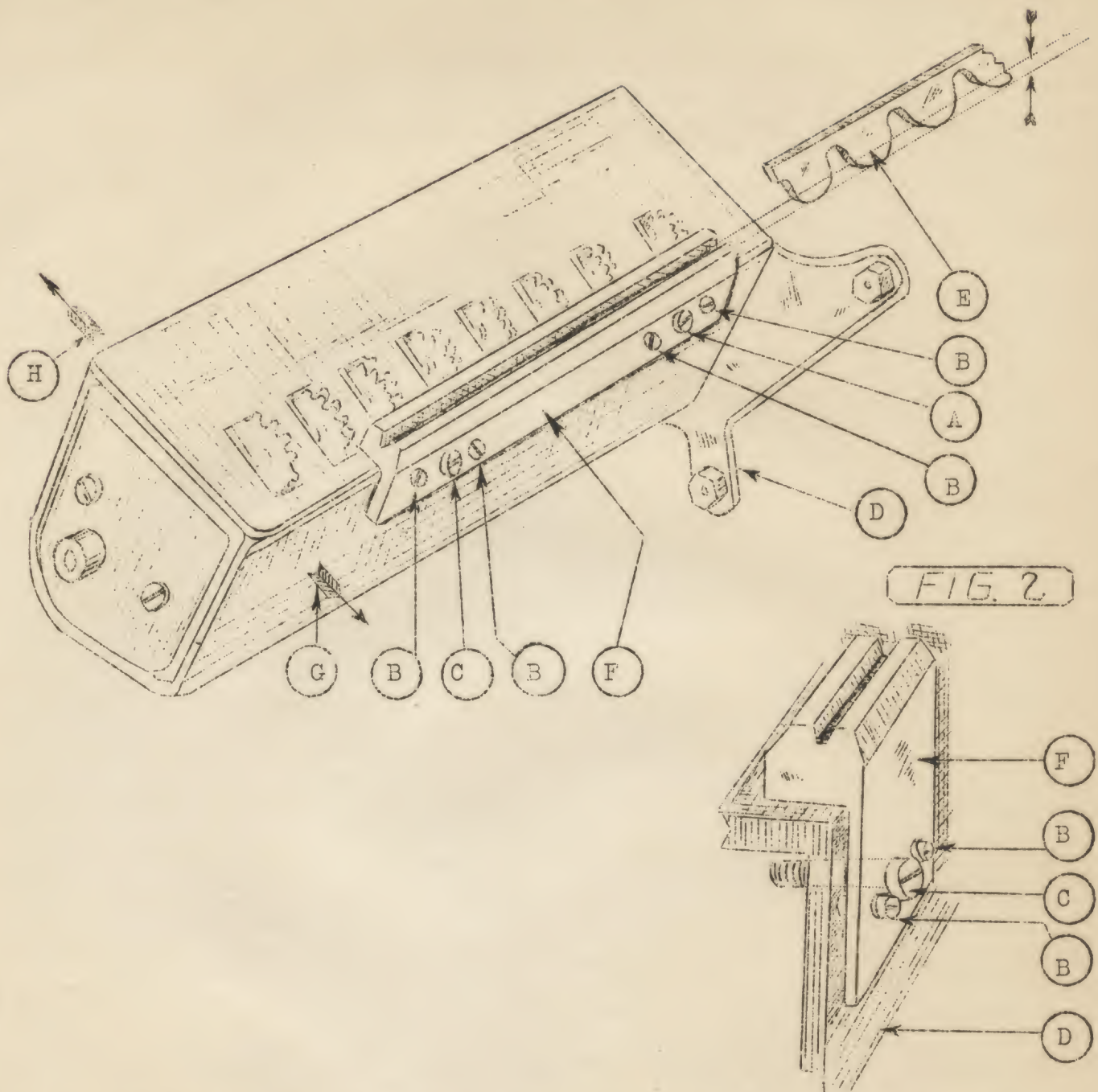


FIG. 1A

- A - Remove the three nuts (A), (M) & (J) together with the three lock washers which are located between the nuts and the carrying unit (K).
- B - Trip the machine trip lever (F).
- C - Insert a hand crank and turn it in the plus position until the bumper pad prevents further movement.
- D - Partially withdraw the unit (K) from the studs (L), (H) and (B).
- E - Depress lever (D) downward to avoid interference with (C), and continue withdrawing unit (K) until lever (E) interferes with the inside face of the extra carry gear (G).
- F - Tip the outside end of unit (K) upward until lever (E) clears the extra carry gear (G).

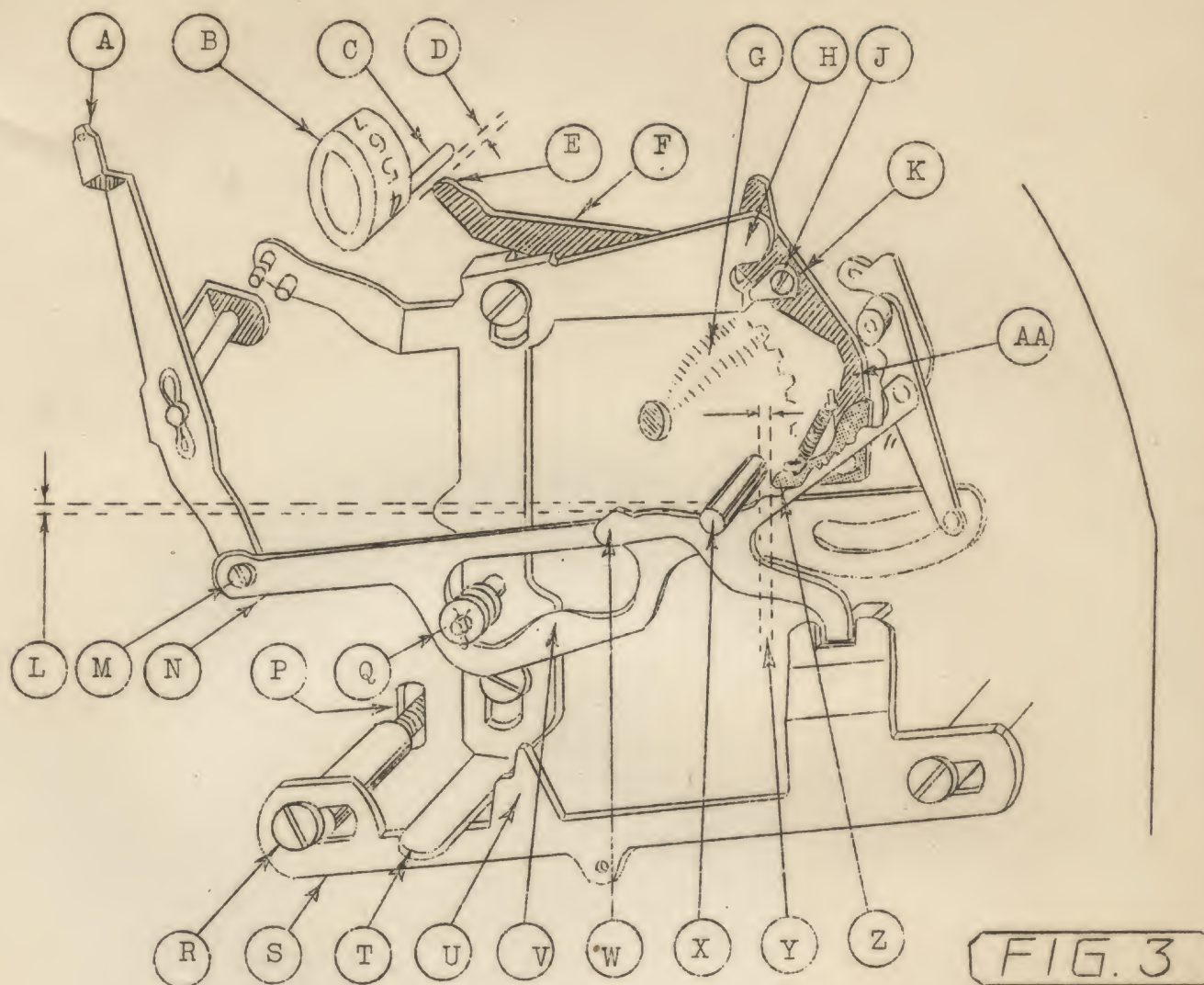
The carrying unit is assembled to the machine as follows:

With the trip lever tripped and the mechanism held to the bumper pad in the plus direction by means of the hand crank and with driving blank (K), figure 1, plate 1, in the position shown, assemble the unit to the machine by locating (E), figure 1A, plate 2, on the inside of the outside extra carry gear. As the unit is advanced toward its permanent location, blank (D), figure 1A, plate 2, must be held down to permit the further inward movement of the unit. To advance the unit still further locate (E), figure 1A, plate 2, in position on top of the regular trip lever blank. At this point of assembly driving blank (K), figure 1, must be positioned so that its driving pin on the crank arm is located in its notch; care being taken to check if the retaining washer is assembled on the driving stud. Finally locate the check pawl (J) in the tooth space of the outside extra carry gear of the machine, as shown in circle on plate 1. The unit can now be tightened in place providing the original shim washers on studs (B), (H) and (L), figure 1A, have not been disturbed.

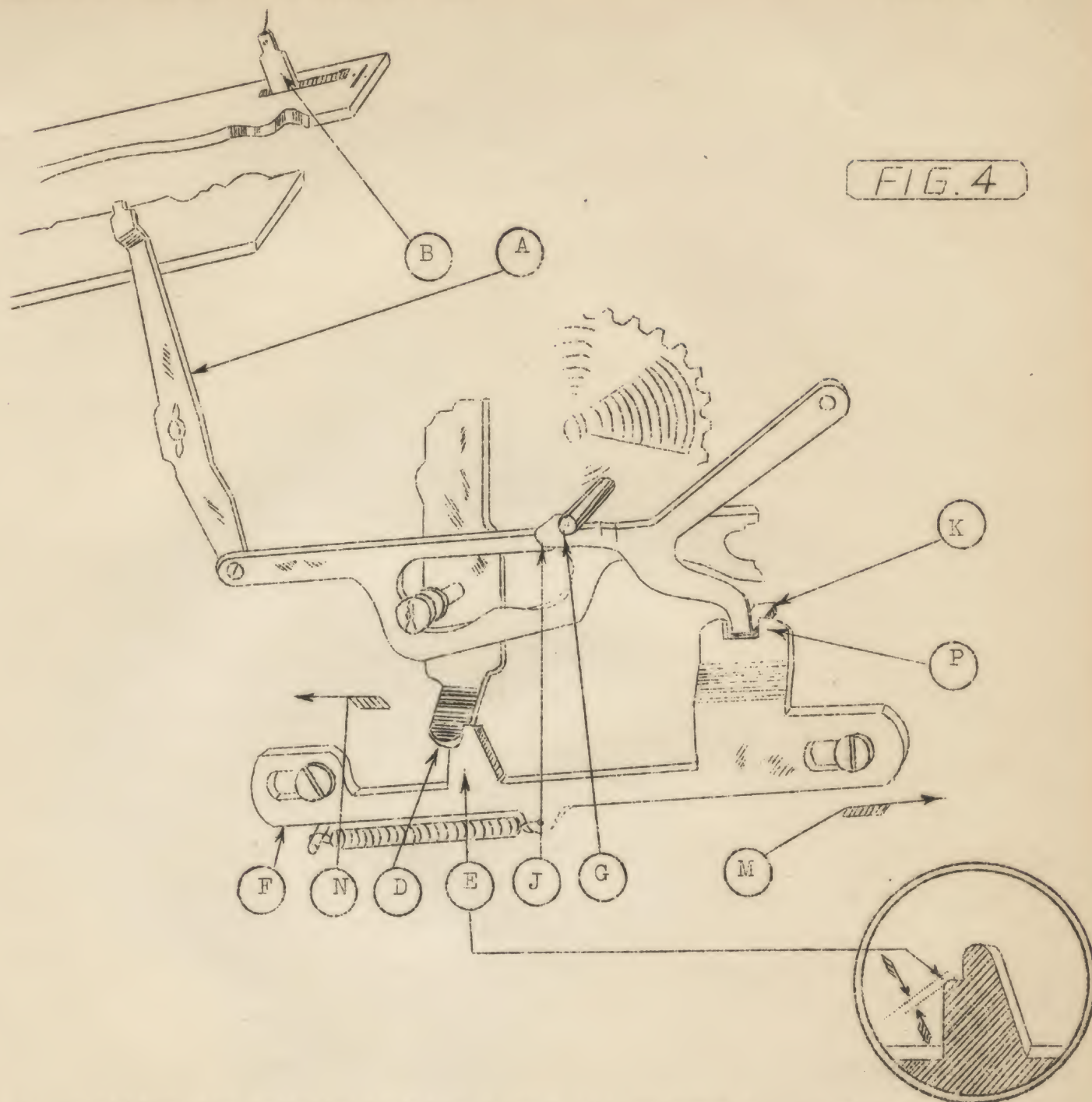


2 The blank (F) is adjusted to the carriage rack (E) as follows:

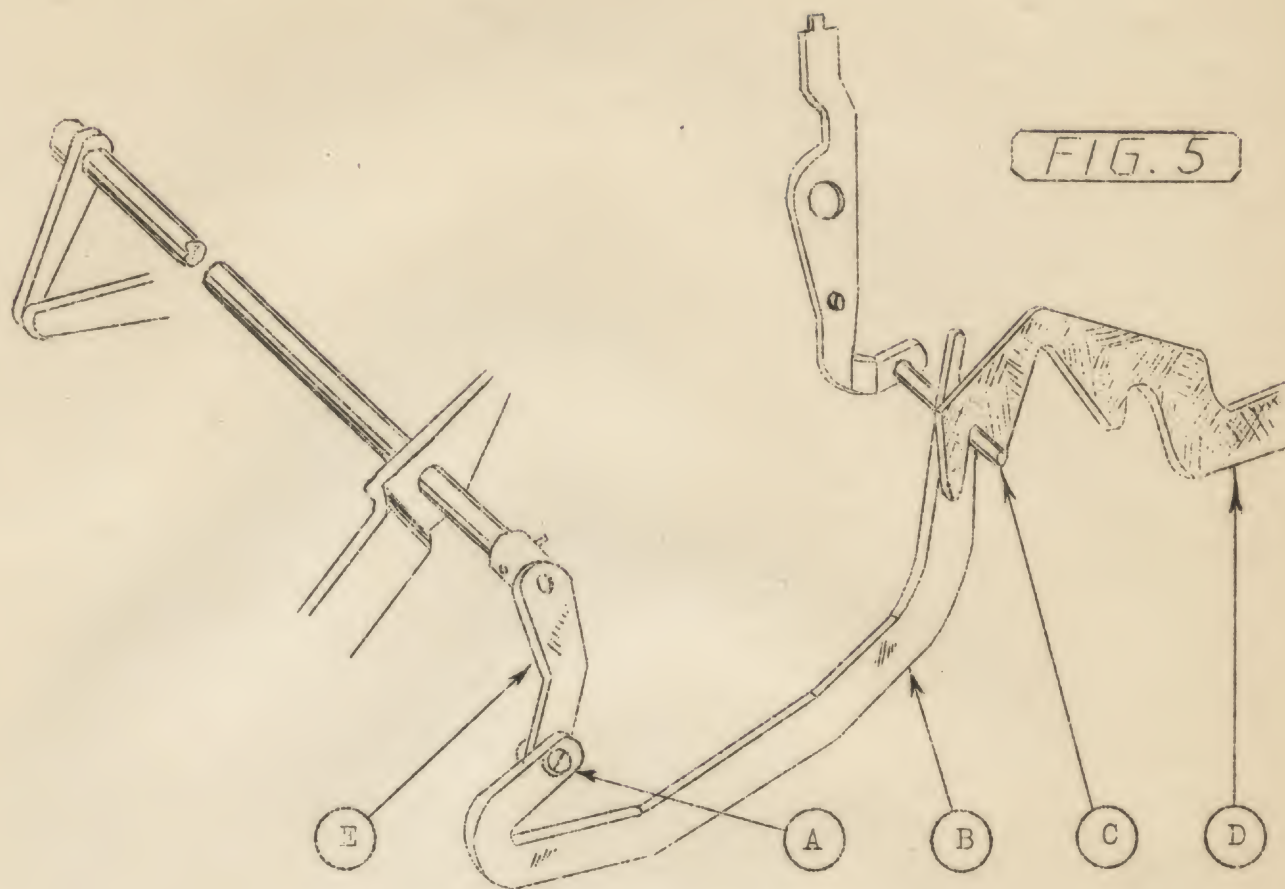
To position blank (F) in the direction of arrow (G), loosen screws (A) and (C) and position the set screws (B) inward to suit. To position blank (F) in the direction of arrow (H), loosen screws (A) and (C) and position the set screws (B) outward from the unit (D). After the adjustment has been made tighten screws (A) and (C) securely. To position blank (F) up or down, loosen screws (A) and (C) and position the blank as desired and tighten the screws (A) and (C) securely.



- 3 When the right hand side mechanism is in neutral position as shown, the pin (C) on the dial gear (B) of the lower carriage dial shaft should clear the point (E) on lever (F) at (D) by approximately $\frac{1}{32}$ ". To obtain this clearance loosen screw (J) and position blank (K) against the lug on (H) to suit. While the mechanism is thus positioned, blank (Z) should clear stud (X) on gear (G) at (Y) by approximately .015. To secure this adjustment bend lever (F) backward or forward at (AA) to suit, using parallel pliers. Clearance should exist between stud (X) and blank (W) at (L).
- 4 When the multiplication lever (A) is slowly positioned rearward, lug (T) should raise the latch on (U) previous to the roller (Q) reaching the position indicated as (V). To secure this adjustment loosen the nut on stud (R) and position the stud slightly downward in slot (P) to suit. After the desired adjustment has been made tighten the nut on stud (R) securely. To secure a slight excess movement of (T) on (U) after latching, turn the eccentric screw stud (M) slightly to suit, thus raising the contacting of (N) with (Q).

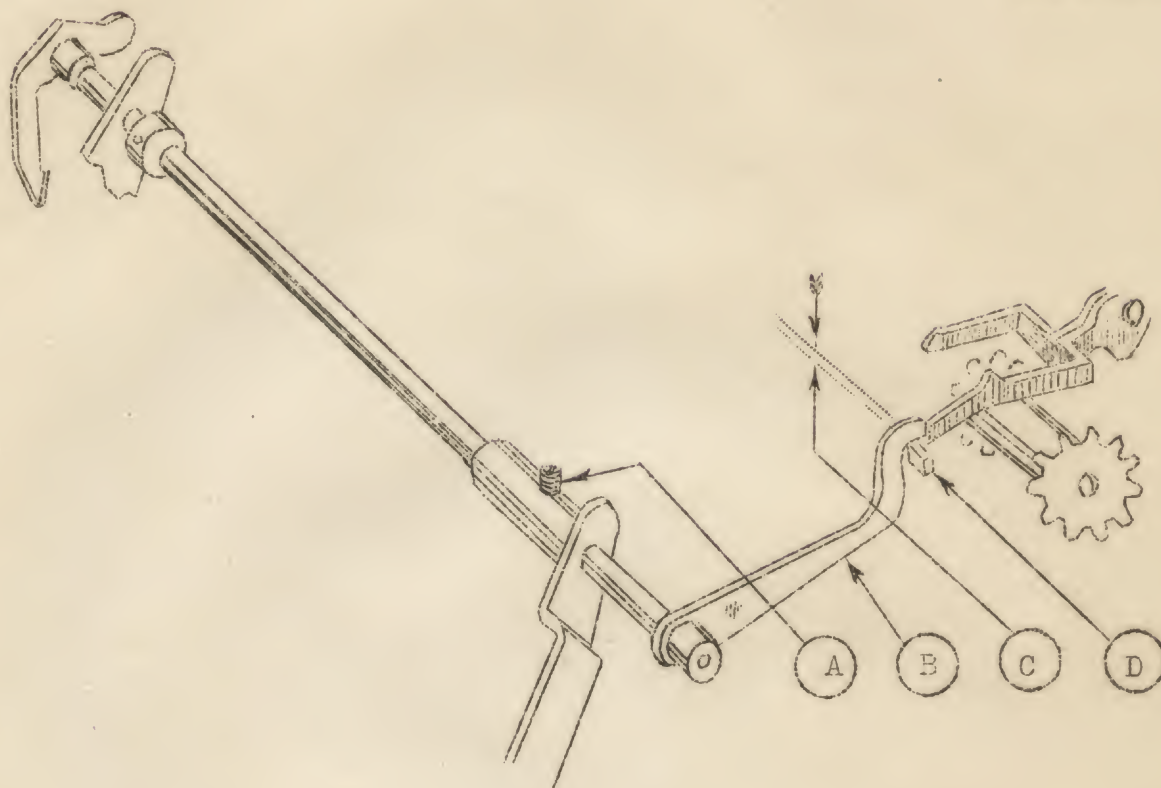


- 5 Position the multiplication lever (A) rearward. Restore the division lever (B) to neutral and insert a hand crank. Turn the crank slowly rearward and note the engagement of stud (G) with (J). Stud (G) should contact (J) sufficiently to cause (F) to move in the direction of arrow (M) and unlatch (E) from (D). If stud (G) passes over the point of (J) without causing an unlatching of (D) from (E) bend lug (D) using parallel pliers in the direction of arrow (N). After this adjustment has been made and if stud (G) contacts (J) when the mechanism is neutralized, grind the lug (K) slightly where it contacts the lug on blank (P) at (P). NOTE - It is advisable to bevel the corner of (E) slightly, as shown in circle, to speed the disengaging action of (E) from (D).

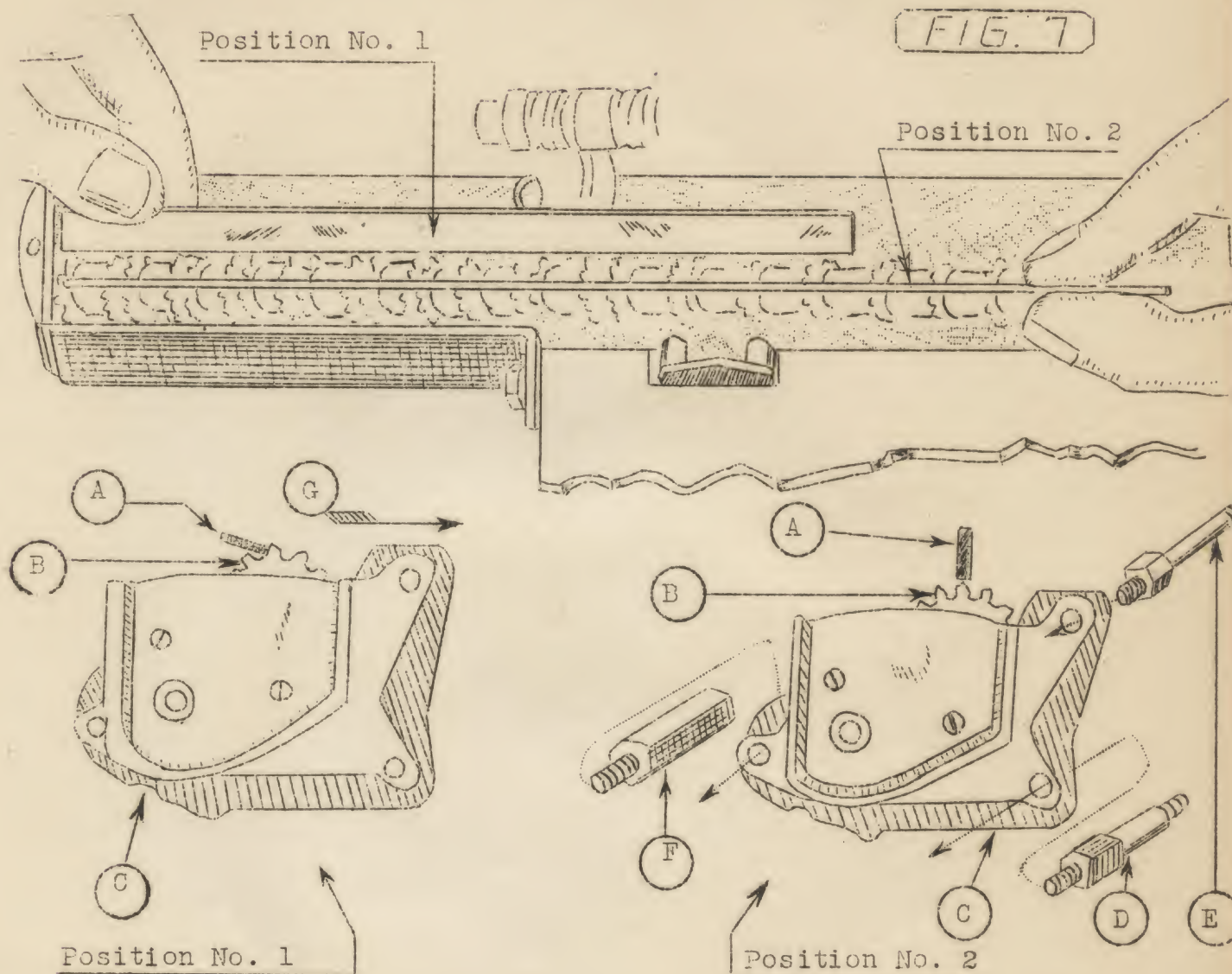


- 6 Eccentric screw stud (A) is provided to adjust the length of link (B) between stud (C) and arm (E) without altering the position of (D) or (E) in any manner. The proper adjustment can only be determined when the machine is in neutral.

FIG. 6



- 7 With the mechanism in neutral, clearance should exist between the top of lug (D) and the bottom of (B) at (C). To secure this clearance loosen set screw (A) and position lever (B) up or down to suit. After the proper adjustment has been made tighten set screw (A) securely.



- 8 Place a scale or straight edge against the intermediate and extra carry gears as shown in position #1 and note the alignment. If the extra carry gears in unit (C) are positioned away from the scale (A), as indicated by arrow (G), install a .005 washer on post (D) and post (E). To position the unit in the opposite direction from arrow (G), install a washer on post (F) only. Add additional washers if necessary. Place the scale or straight edge on the extreme point of the gears as shown in position #2 and note the alignment. If the extra carry gears in unit (C) do not contact the bottom edge of the scale, place washers on posts (F) and (D) to suit.

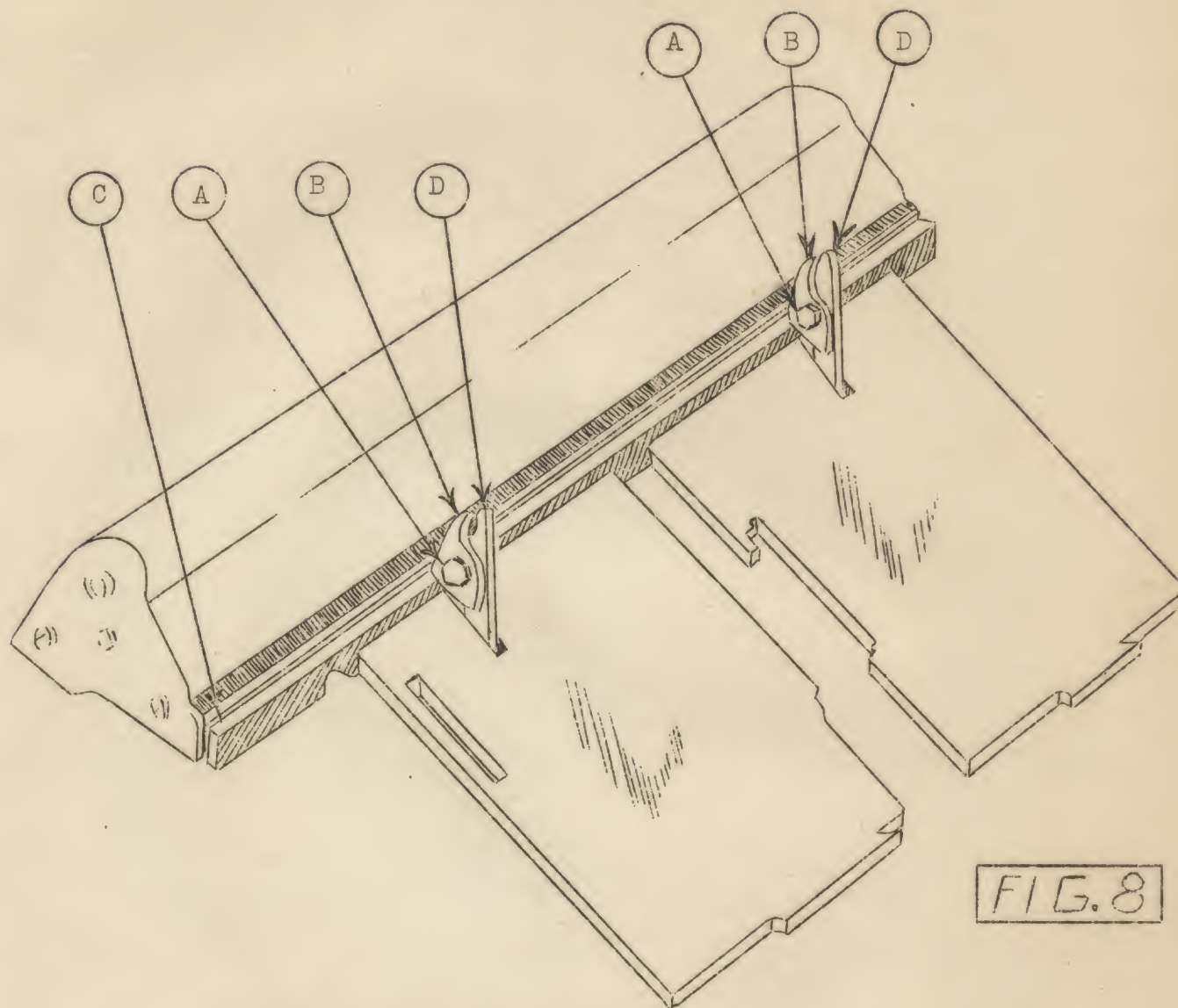
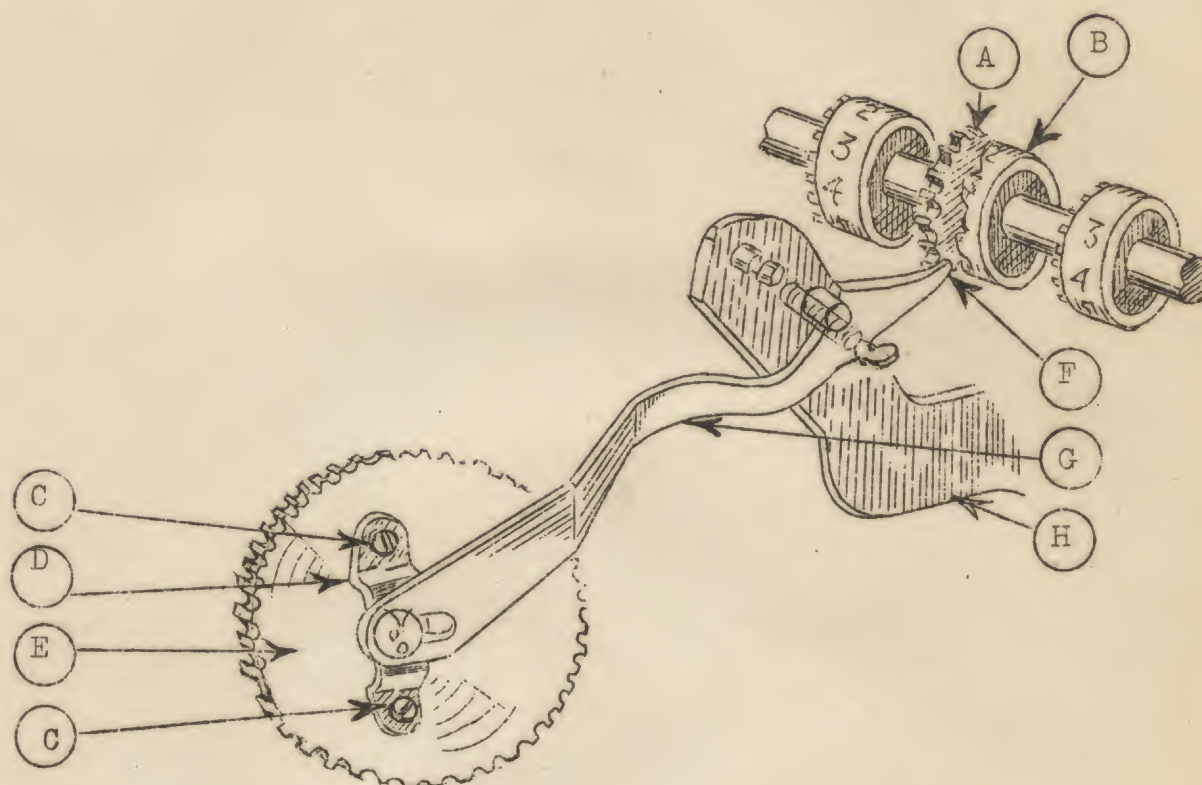


FIG. 8

- 9 To adjust the carriage locks (D) to the lock ledge (C), loosen the hexagon studs (A) and position the flexible blanks (B) to suit. Tighten the studs (A) securely after the adjustment has been made.

FIG. 9



- 10 When the multiplication lever is positioned rearward it causes the raising of (H) which in turn allows the dial counting finger (G) to engage the teeth (A) on the lower dials (B). The tip (F) of finger (G) should mesh the dial gear tooth space centrally when the mechanism is operated. To secure this condition loosen screws (C) in gear (E) and position bracket (D) forward, rearward, upward or downward to suit. After the proper adjustment has been made tighten screws (C) securely.